Approved For Release 2008/04/30 : CIA-RDP78B04558A000600100017-7

FI

OUT 50701

T O P S E C R E T 272159Z

1963 FEB 27 22

REF:	A.I.	7/TS. 1074/	12/05337,	30	JANUARY	1963	

25X1 25X1

317

25X1

- THE C.M.C.I. IS BASED UPON TWO INPUTS.
- A. SPACE TRACK ORBIT EPHEMERIS TA WHICH IS NOT ALWAYS OF THE HIGHEST ACCURACY AND OFTEN DIFFERS FROM THE ORBIT EPHEMERIS GENERATED FROM THE SYSTEM TRACKING STATION DATA.
- B. THE COORDINATES OF CENTER OF EACH FRAME ARE INTERPOLATED BY TIME CORRELATION TO THE ORBIT EPHEMERIS BASED ON A PLOT OF ONE FRAME NEAR THE BEGINNING, ONE IN MID PASS AND ONE NEAR THE END OF EACH PASS. ACCURACY IS AFFECTED BY THE PRECISION OF THE PLOTTED. FRAMES AND THE ACCURACY OF THE WACS UPON WHICH THEY ARE PLOTTED.
- 2. ACCURACY OF THE CMCI COORDINATES HAS NOT BEEN FULLY ANALYZED, HOWEVER, VARIOUS CHECKS AND USE EXPERIENCE HAS INDICATED DIFFERENCE BETWEEN FRAME PLOTTED POSITIONS AND COMPUTED CMCI POSITIONS AVERAGE ABOUT 8 MINUTES IN LATITUDE AND 16 MINUTES IN LOGITUDE WITH EXTREME DIFFERENCES AS MUCH AS A DEGREE OR MORE.
- 3. EXPERIENCE AND REFINEMENTS IN COMPUTATIONS MAY HAVE NARROWED THESE DIFFERENCES ON THE MORE RECENT MISSIONS.
- 4. ALTITUDES IN THE CMCI HAVE BEEN FOUND TO BE IN ERROR AS MUCH AS TEN PERCENT.

TCPSECRET

25X1